

03/05/96 07:30 202 586 2323
 '96-03-05 19:16 PYONGYANG-KOREA

RA Libby
 812473

--- V CAROTENUTO 002/002

TRANSFERRED TO OTHER AGENCY
 TRANSFER FOR DIRECT REPLY - DOE

M119

US Spent Fuel Team Daily Fax

CHRON Tuesday, March 5, 1996

TO: CHERIE FITZGERALD, US DOE NN-42 1 202 586 2323 FROM: KEN AMES, DOE SITE MONITOR 850 2381 2473

Daily Action Item List

1. Conditioning equipment testing

- Install the damaged fuel canister on work station #4 - completed
- Clean other fuel rods from basket 105 and install the cleaned rods into the damaged fuel canister - Today 13 rods from basket 105 were examined, cleaned, and loaded into the damaged fuel canister. Cladding condition varied from mostly intact to mostly gone and some of the rods were visably bowed. But the uranium metal is basically intact on all rods seen so far. By the end of the day, visibility was deteriorating, so it'll be interesting to see whether it recovers fully overnight. Butch estimates that the damaged fuel canister will hold between 19 and 21 rods total. There was some work done with the L-hook to try to get all the rods as parallel as possible so that the maximum number can be loaded.

Butch, Jeff, and Mike were trained by George so that all now have a feel for grappling, cleaning, and loading rods. There is some concern that the work may prove too physically strenuous since the tool and fuel rod weigh about 40

rounded and they have to be held by the... of several minutes. We have

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02/06/98 07:28 202 586 2323

RA Libby

--- V CAROTENUTO

002/002

TRANSFERRED TO OTHER AGENCY

TRANSFER FOR DIRECT REPLY - DOE

CHRON

7/120

US Spent Fuel Team Daily Fax

Wednesday, March 6, 1996

TO: CHERIE FITZGERALD, US DOE NN-42 1202 586 2323

FROM: KEN AMES, DOE SITE MONITOR 850 2 381 2473

Daily Action Item List

1. Conditioning equipment testing

- Finish loading damaged fuel canister at work station #4 from basket #105 with as many rods as will fit. - As it happened; no more rods could be loaded into the canister so we proceeded with 13 rods in the can. Perhaps in the future we will learn how to get more in.

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03/07/98 07:53 202 586 2323

RA Libby

V CAROTENUTO

0027003

TRANSFERRED TO OTHER AGENCY

TRANSFER FOR DIRECT REPLY - DOE

71121

US Spent Fuel Team Daily Fax (2pg.)

Thursday, March 7, 1996

TO: CHERIE FITZGERALD US DOE NN-42 1 202 586 2323

FROM: KEN AMES DOE SITE MONITOR 850 2 381 2473

03/07/96 07:54
96-03-07 19:21

202 586 2323
PYONGYANG-KOREA

RA Libby
812473

V CAROTENUTO

0003/003

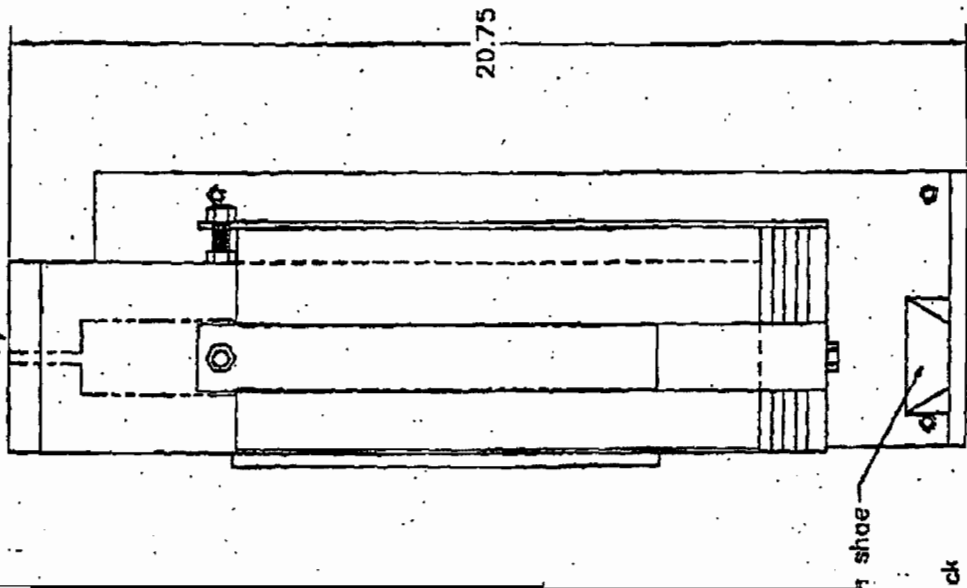
7W22

Shielding thicknesses:
right side - 32mm steel, 19mm lead
left side - 10mm steel, 19mm lead
front side - 32mm steel, 19mm lead
bottom - 65mm steel, 25mm lead

Shielding, .75" thick

Detector Housing

Detector upright



KEN AMES

03/08/98 09:43 202 586 2323
'96-03-08 19:39 PYONGYANG-KOREA

RA Libby
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+++ V CAROTENUTO
1-001 1-01

0002/002

TRANSFERRED TO OTHER AGENCY
TRANSFER FOR DIRECT REPLY - DOE

CHRON

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7/123

US Spent Fuel Team Daily Fax

Friday, March 8, 1996

TO: CHERIE FITZGERALD, US DOE NN-42 1 202 586 2323 FROM: KEN AMES, DOE SITE MONITOR 850 2 381 2473

Daily Action-Item List

4. Emergency loaded confirmed all downhills reaching back from isoket, exceeding

03/11/98 07:34
'96-03-09 19:21

202 586 2323
PYUNGTHUNG-KUREH

RA Libby /

V CAROTENUTO

003/00

TRANSFERRED TO OTHER AGENCY
TRANSFER FOR DIRECT REPLY - DOE

CHRON

1184

US Spent Fuel Team Daily Fax

Saturday, March 9, 1996

TO: CHERIE FITZGERALD, US DOE NN-42 1 202 586 2323 FROM: KEN AMES, DOE SITE MONITOR 850 2 381 2473

Daily Action Item List

1. Continue debugging conditioning station.

- Vacuum system
- Flow meters
- Other items

George Jackson and Mike Miles made good progress in this area today. They have calibrated the gages and ascertained that the vacuum pump is working correctly. In the process of tracing out lines they found several loose connections and are continuing to check all of them with Snoop®. The next step will be to pressure test the whole system.

2. Prepare for demo of rack post removal tool (tool #39). - Jeff Pope was able to get the air-powered wrench into the screw head but it doesn't have as much torque as he had when he tightened the screws in North Carolina. Jeff and Butch are in the process of making a breaker bar they can use to loosen the screws enough for the air wrench to continue.

3. Continue writing procedures for fuel canning. - Tom Shelton spent all day writing procedures with input from George and Jim Viebrock.

4. Shoot video footage of work station mods and preparations for tool 39 demo. - I was unable to do this today because the Chief Engineer requested us not to take any photos in the spent fuel area until we have resolved how the video tapes of fuel rod surfaces will be treated and what measures will be taken to keep any views of the rods from being leaked.

5. Check status of approval from IAEA for shielding scheme for gamma collimator. - The Chief Engineer informed us that he gave a copy of our shielding design to the IAEA. We asked the Chief Engineer if he wanted any changes made per his comments yesterday regarding shielding thickness on the left side. He said not to.

I received a one-page fax from Tom Grim today. I expect to be able to answer most of the questions on Monday. The Chief Engineer told us today that construction of the boiler building will start Monday.

There was no time lost today due to power outages or other problems. The conditioning equipment debugging consumed about 32 man-hours; the procedure writing about 9 and the tool #39 demo the remaining 13 man-hours.

DOES NOT CONTAIN
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NUCLEAR INFORMATION

CONFIRMED TO BE UNCLASSIFIED
DOE OFFICE OF CLASSIFICATION
T. Sieler # Sieler
DR DATE: 1/30/2009

LGH JSP GMJ JMV JFF MPM KSR KRA TAS

U.S. spent fuel team (DOE) weekly summaries

20080002437

03/11/98 07:34 202 586 2323
96-03-11 19:45 PYONGYANG-KOREA

RA Libby
EL2973

V CAROTENUTO 002/003

TRANSFERRED TO OTHER AGENCY
TRANSFER FOR DIRECT REPLY - DOE

71125

US Spent Fuel Team Daily Fax

TO: CHERIE FITZGERALD, US DOE NN-42 1 202 586 2323

Monday, March 11, 1996
FROM: KEN AMES, DOE SITE MONITOR 850 2 381 2473

Daily Action Item List

1. Continue debugging conditioning station.
 - Snoop® and tighten fittings. - finished
 - Pressurize canister to check it for leaks. - One of the snap-tite couplings to the canister leaked initially the second time the canister was pressurized but stopped bubbling when George pulled on the hose. George and Mike had to quit troubleshooting when generator power was off for awhile, but later it started leaking again.
 2. Prepare for demo of rack post removal tool (tool #39). - The test was successfully performed this afternoon. Good work by Jeff and Butch with help from the crane operator. I made a video tape of the process and the underwater video camera was also used in the rack for a closeup look at the horizontal screw that had to be loosened.
 3. Continue writing procedures for fuel canning. - Tom Shelton spent most of the day finalizing procedures.
 4. Check status of approval from IAEA for shielding scheme for gamma collimator. - The Chief Engineer informed us that the IAEA has approved our design as submitted and has requested that the U.S. Spent Fuel Team mount the collimator as shown. The necessary drawings are finished and work will start tomorrow.
- This morning we had a discussion of photography in the pool area. The Chief Engineer delivered to us an English translation of the security rules he says are being imposed on him and on us. This is a significant new restriction which I believe is unwarranted, especially in the case of film cameras. I argued accordingly, but to no effect. It reads as follows:

Regulation on Photographs Showing Fuel Rod Surface

1. Video or film cameras may be used in the pool area with the permission of the facility.
2. Video tapes and photos showing the spent fuel rod should be used only in the site, remaining in the facility's custody.
3. All video tapes and film used in the pool area should be reviewed by the facility people.
4. The problem related to the use of the video tapes and photos showing the spent fuel rod in U.S.A. will be discussed case by case in proper time.

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If we cannot get any relief from this new policy, it leaves us with three options: 1) Rely on video photography from now on in the pool area—no more film photos from that area; 2) Bring to the site means to develop film so that the negatives can be reviewed by facility people; or 3) Procure and use a digital camera for photos in the spent fuel area.

Viebrock and Faughnan left today for Pyongyang on their way to the U.S. 17 man-hours were spent on the tool #39 demo, 16 on debugging the stations, 6 on procedures, and 2 on gamma collimator mounting. 2 were lost in meetings and 2 to a power outage.

LGH JSP GMJ MPM KSR KRA TAS

U.S. spent fuel team (DOE) weekly summaries

CONFIRMED TO BE UNCLASSIFIED
DOE OFFICE OF CLASSIFICATION H-5-13
DR DATE: 1/30/2009
T. Sieder

03/12/96 TUE 13:15 FAX 2025860487
'96-03-12 18:35 PYONGYANG-KOREA

NN-42
812473

T-823 P.01

0002

03/13/88 09:04 202 586 2323
'96-03-13 18:56 PYONGYANG-KOREA

DOE - NN-42
B12473

--- V CAROTENUTO
T-827 P.01

002/002

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TRANSFER FOR DIRECT REPLY - DOE

US Spent Fuel Team Daily Fax

Wednesday, March 13, 1996

TO: CHERIE FITZGERALD, US DOE NN-42 1 202 586 2323 FROM: KEN AMES, DOE SITE MONITOR 850 2 381 2473

Daily Action Item List

1. Continue debugging conditioning station.

- Run complete conditioning sequence on work station #4 - Mike and George reported that the test was completed 'with flying colors.'
- Begin mods to work stations #1, #2, and #3 - Work station #1 is ready to begin testing with the loaded canister tomorrow. Mike and George have gotten about as far as they can on #2 and #3 until they're installed in the pool, which will be after the collimators are mounted.

2. Continue writing procedures for fuel canning. - Tom Shelton again spent most of the day finalizing procedures.

3. Continue construction of mounting and shielding hardware for IAEA gross gamma probe. - Butch and Jeff continue to make great progress. The steel parts are finished and they estimate that they'll be ready to start mounting them on the work stations sometime tomorrow afternoon.

I called the Great Wall Sheraton last night and got the lab computer password. Turns out that Roger is the one who changed it and it was back in December.

Bob Flournoy arrived this afternoon, so we now have HP coverage again.

Today 18 man-hours were spent on conditioning system checkout and debugging, another 18 were spent on fabricating the shielding supports and mounting hardware for the collimator, and the remaining 9 were spent on procedure writing. No hours were lost due to problems.

This afternoon I had the DPRK people review the video tape I've taken with the camcorder so that I could take it back to the guest house for copying. There were two places on the tape that showed fuel rods and which they made me erase before they'd release the tape. Since I wasn't taking the video to show the rods (that's what the underwater cameras are for), I didn't have a problem erasing those parts of the tape. But I still think we need to protest at the Norm Wulf-Director Li level because the restriction makes no sense and makes it difficult to keep a record of how the failed fuel canisters are loaded. I am sure that there are security regulations forbidding Americans into the site, but those have been waived and I'm sure that if it is discussed at the right level, this regulation can be waived as well.

LGH JSP GMJ MPM KSR KRA TAS RLF

U.S. spent fuel team (DOE) weekly summaries

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CONFIRMED TO BE UNCLASSIFIED
DOE OFFICE OF CLASSIFICATION H5-13
DR DATE: 3/2/2009
T. Sieler

03/14/98 08:43 202 588 2323

DOE - NN-42

+++ V CAROTENUTO

001/001

'96-03-14 19:12 PYONGYANG-KOREA

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T-829 P.01

TRANSFERRED TO OTHER AGENCY.

CHRON

1129

TRANSFERRED FOR DIRECT REPLY DOE

TRANSFERRED TO OTHER AGENCY
TRANSFER FOR DIRECT REPLY - DOE

CHRON

M/30

US Spent Fuel Team Daily Fax

Friday, March 15, 1996

TO: CHERIE FITZGERALD, US DOE NN-42 1 202 586 2323 FROM: KEN AMES, DOE SITE MONITOR 250 2 381 2473

Daily Action Item List

1. Prepare canning station #1 for functional test.

Today I decided to see if I could figure out why the contactors on the water heater have been sparking. I couldn't find any problems with the wiring and they didn't spark while I had them turned on. I believe the problem may be that the combined load of the water heater, the circulating pump, and other loads may be drawing the generator voltage down, causing the primary voltage on the contactors to drop too low. As soon as the contactors drop out, the voltage is restored, so they pull back in. This leads to chattering of the contacts and the arcing which Mike has reported seeing. Another possibility could be that all of the heater elements are connected to the same leg of the 3-phase power, leading to an unbalanced load. We'll do some more checking tomorrow to see what we can learn.

2. Continue writing procedures for fuel canning. - Tom Shelton spent the morning finalizing the procedures. A draft was sent with George Jackson, who left for the U.S. today.

3. Continue construction of mounting and shielding hardware for IAEA gross gamma probe. - At lunch time yesterday, the welder became inoperative. Jeff and I troubleshot it and determined that the throttle solenoid is not functioning properly. It is possible that the circuit that actuates the solenoid is supposed to deliver a jolt of higher voltage to get it to pull in, but if so, that is not happening. With 14 volts supplied to the solenoid, it will only pull in about the last 1/8" of its travel. We may have been able to learn more, but couldn't find the manual for the welder. The welder is a Miller-Bobcat 225D CC/CV AC/DC Welder w/ 8000 Watt Generator. The solenoid is a Model 1751-12A6V2B1 part number 149618 serial number 46975 manufactured by Synchro Start Products, Inc. Jeff was able to get the welder operating by adjusting the throttle cable, but not very well.

In the afternoon, we were ready to leak-test the gamma detector systems, but the IAEA had forgotten to water-proof their detectors. We ran the leak tests without the detectors and will redo them tomorrow.

Today 13 man-hours were spent on conditioning system checkout and debugging, another 18 were spent on fabricating the shielding supports and mounting hardware for the collimator, and the remaining 9 were spent on procedure writing. No hours were lost due to problems.

Spence Richardson reported that he had a very interesting lunch meeting in Pyongyang.

LGH JSP MPM KSR KRA TAS RLF

U.S. spent fuel team (DOE) Weekly Summaries

20080002437

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CONFIRMED TO BE UNCLASSIFIED
DOE OFFICE OF CLASSIFICATION HS-13
DATE 3/2/2001
T. Stier

FRI 3/15

0000 13632

03/18/96 10:52 202 586 2323
06-03-16 16:00 PYONGYANG-KOREA

DOE - NN-42
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--- V CAROTENUTO

002/082

T-839 P. 01

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TRANSFER FOR DIRECT REPLY - DOE

CHRON

7/13/96

US Spent Fuel Team Daily Fax

Saturday, March 16, 1996

TO: CHERIE FITZGERALD, US DOE NN-42 1 202 586 2323

FROM: KEN AMES, DOE SITE MONITOR 850 2 381 2473

Daily Action Item List

1. Functional test of canning station #1.

More great progress! Mike and Tom finished a complete conditioning test with the loaded canister on work station #1. Now that we've completed testing with two stations, Mike should make quick work of #2 and #3 next week.

2. Fine-tuning of procedures for fuel canning. Tom Shelton spent a good part of the day in the pool area working to understand the fine points of operating the equipment.

3. Final preparation for installation of work stations #2 and #3. - The collimator mounts have been welded onto work stations #2 and #3. There is only a little more work to do with the hot water plumbing on work station #2 before the work stations will be ready to go into the pool.

Today 13 man-hours were spent on conditioning system checkout, another 16 were spent on mounting the gamma collimator to work stations #2 and #3 and getting them ready to go into the water. Two man-hours were lost due to a power outage near the end of the day. The

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03/19/96 08:25 202 586 2323

DOE - NN-42

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IRON

(M/32)

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TRANSFER FOR DIRECT REPLY - DOE

CHRON

1133

U.S. Spent Fuel Team, Tuesday 3/19/96

To: Cherie Fitzgerald, U.S. Department of Energy, NN-42

Fax: 1-202-586-2323

Phone: 1-202-586-8525

From: Dick Libby, DOE On-Site Monitor

Fax: 850-2-381-2473

Phone: 850-2-381-4423

Daily Action Item List

Final Assembly of Work Stations. A good day's work. Work was completed on canning station 3 in preparation for placement in pool. At about 10:00 the station was rigged and the lift begun. By 11:30 the underwater portions of the work station were in place in the pool. Work continued on the upper platform, brush motor drive and other final assembly work. Other work was completed on work station 2 to enable its placement in the pool, tomorrow. It was decided to stagger the placement to allow parallel work activities, reducing total assembly time.

Procedure Finalization. Mr. Bonadies reviewed the procedures for canning and conditioning.

Mr. Li had several questions related to the possible mention of completion of first canning. He made a comment on the proposed discussion topics and was satisfied that he understood the purpose. He will now forward our request to his government and reply as soon as a response is obtained.

Today 6 hours were spent on procedures and 30 hours on canning station work. Another delay occurred again today at one of the guard stations. However, the delay was not as long as that experienced yesterday.

The electrical power at the Guest House went out last night before the daily fax could be sent. The draft which was completed prior to outage (including an incorrect date!) was sent out by the staff first thing this morning. There have been problems (especially during the last week) with evening power outages. In addition, there has been very limited availability of hot water during the morning and evening hours the team spends at the Guest House. The water has either been tepid (at best) or there is insufficient pressure. The Guest House staff have indicated that the problem has been solved and that there will be adequate hot water starting today.

I plan to call Cherie Fitzgerald tomorrow morning (I hope to call at 7:00 AM here or 5:00 PM Tuesday in Washington).

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DOE OFFICE OF CLASSIFICATION, H543
T. Sieler DR DATE: 2/2/2004
F. S. L. 10

U.S. spent fuel team (DOE) weekly summaries

03/20/96 08:02 202 586 2323
96-03-20 18:25 PYONGYANG-KUREA

DOE - NN-42
812473

--- V CAROTENUTO
T-852 P.03

003/003

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TRANSFER FOR DIRECT REPLY - DOE

3/3
M134

U.S. Spent Fuel Team, Wednesday 3/20/96

To: Cherie Fitzgerald, U.S. Department of Energy, NN-42

Fax: 1-202-586-2323

Phone: 1-202-586-8525

From: Dick Libby, DOE On-Site Monitor

Fax: 850-2-381-2473

Phone: 850-2-381-4423

Cherie:

I thought I would send some additional information (three pages total, the daily fax, the page from Denis, and this page). First item:

Mr. Li passed on to his government the following general comments regarding the possible speech:

1. The first fuel has been canned...a major milestone in the program

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03/20/96 08:01 202 586 2323
36-03-20 18:23 PYONGYANG-KOREADOE -- NN-42
812473V CAROTENUTO
T-632 P. 01

002/003

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TRANSFER FOR DIRECT REPLY - DOE

CHRON

U.S. Spent Fuel Team, Wednesday 3/20/96

To: Cherie Fitzgerald, U.S. Department of Energy, NN-42

Fax: 1-202-586-2323

Phone: 1-202-586-8525

From: Dick Libby, DOE On-Site Monitor

Fax: 850-2-381-2473

Phone: 850-2-381-4423

Daily Action Item List

Final Assembly and Placement of Work Stations. Another good day's work. Work was completed on canning station 2 in preparation for placement in the pool. Like yesterday, by about 10:00 the station had been prepared, it had been cleaned, and it was rigged for lifting. By 11:30 the underwater portions of the work station were in place in the pool. Now all four work stations are in the pool. Work continued on

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03/21/96 08:55 202 586 2323
96-03-21 19:46 PYONGYANG-KOREA

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T-858 P.01

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TRANSFER FOR DIRECT REPLY - DOE

CHRON

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U.S. Spent Fuel Team, Thursday 3/21/96

To: Cherie Fitzgerald, U.S. Department of Energy, NN-42

Fax: 1-202-586-2323

Phone: 1-202-586-8525

From: Dick Libby, DOE On-Site Monitor

2 Pages

Fax: 850-2-381-2473

Phone: 850-2-381-4423

Daily Action Item List

Final Assembly and Placement of Work Stations. The conditioning portion of work station 3 will be ready to test tomorrow. Today's work went into connections and check out of equipment. Also, the remainder of the platform assembly work was completed. It is unlikely that all work station checkouts will occur before the end of the week.

We requested access to the Water Hardness Test Kit in this morning's meeting with Chief Engineer Li. He understood our need to perform this test and indicated that he would contact the local Customs agent to clear the boxes. At 2:00 the local Customs inspector checked the kit's contents and its use was approved. The manuals

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MATION

WBLA

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 CONCURRENCE REQUESTED - DOE



U.S. SPENT FUEL TEAM
 Nyongbyon Site Personnel Report

March 20, 1996



Name	Currently at the										Air Koryo	
	Organization	Site	Arrival in DPRK	Site Pass Expiration	Departure from Site	Departure from DPRK	DPRK Visa Expiration	Departure Reservation				
Ames, Ken	DOE											
Bonadies, Neal	NAC	X	March 16	April 30	April 19	April 20	May 15	April 16				
Faughnan, Jim	C21											
Fournoy, Bob	C21	X	March 12	April 16	April 15	April 16	May 12	April 16				
Gilm, Tom	DOE		March 30		April 15	April 16						
Hamilton, Butch	NAC	X	January 6	March 30	March 29	March 30	April 15	2/20/1996 ?				
Jackson, George	NAC											
Libby, Dick	DOE	X	March 16	April 9	April 1	April 2	April 14	April 2				
Little, Winston	DOE		April 13		April 29	April 30						
Miles, Mike	NAC	X	February 27	4/8/1996 *	April 6	April 9	April 28	4/9/1996 ?				
Miller, Chris	DOS											
Morris, Doug	DOS											
Newey, John	C21											
Pope, Jeff	NAC		March 26		April 26	April 27		4/27/1996 ?				
Potter, Bill	NAC											
Quinones, Ken	DOS											
Reynolds, Denis	DOS	X	March 16	April 9	April 1	April 2	April 14	April 2				
Richardson, Spence	DOS											
Shelton, Tom	NAC	X	March 5	March 30	March 29	March 30	April 5	3/30/1996 ?				
Thomas, Randy	DOE											
Viebrock, Jim	NAC		March 30		May 6	May 7		5/7/1996 ?				
Yates, Ken	DOS											

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DOE OFFICE OF CLASSIFICATION
 T. Sieler
 DR DATE: 2/2/2009

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03/22/96 08:55
96-83-22 18:39

202 586 2323
PYONGYANG-KOREA

DOE - NN-42
812473

--- V CAROTENUTO
T-864 P.01

002/003

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TRANSFER FOR DIRECT REPLY - DOE

CHRON

U.S. Spent Fuel Team, Friday 3/22/96

To: Cherie Fitzgerald, U.S. Department of Energy, NN-42

Fax: 1-202-586-2323

Phone: 1-202-586-8525

From: Dick Libby, DOE On-Site Monitor

Fax: 850-2-381-2473

Phone: 850-2-381-4423

Daily Action Item List

Final Assembly and Placement of Work Stations. The conditioning portion of work station 3 was tested today. In the morning the canister was hooked up to the station and it was purged of water; in the afternoon the drying and conditioning cycle testing began. The brush station drive motors were connected to the shafts and electrical connections were made. The remainder of the platform pieces were installed to make a monolithic floor.

Boiler Construction. During the morning meeting I asked about the construction timetable for the boiler building. Mr. Li indicated that, as he promised earlier, construction started on March 20 and would be completed within one month. At noon he showed us the construction site, at the NE corner of the reactor building (see attached sketch). The ground has been cleared and holes for footings are partially dug. Mr. Li asked who would be assembling the boiler and I indicated that the DPRK would assemble the equipment under U.S. supervision. He suggested that the person planning to be present for assembly (presumably Mr. Thomas) be there 10 days before completion of construction (i.e., April 10). To ensure that all parts are present, it was suggested that the crates be opened and inspected prior to that time. Is there a detailed packing list at the site? I plan to call Mr. Thomas Saturday morning (8:00 AM = 3:00PM PST Friday) for his guidance on this.

Today 36 hours were devoted to canning work station setup. There were no hours lost to delays of any kind.

We are running short on Latex gloves. If Mr. Grim or Mr. Viebrock (please coordinate) could bring in 20 boxes, we would have ample supplies until the air shipment arrives. Also, if Mr. Grim could bring a bottle of distilled water, it would assist the water hardness tests. We also need 100 plastic Millipore filter planchet holders labeled "For Biological Purposes" (they are about 2" in diameter, with lids).

DOES NOT CONTAIN UNCLASSIFIED CONTROLLED INFORMATION
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DOE OFFICE OF CLASSIFICATION 15-13

200013640

03/22/96 08:55 202 588 2323
96-03-22 10:40 PYONGYANG-KOREA

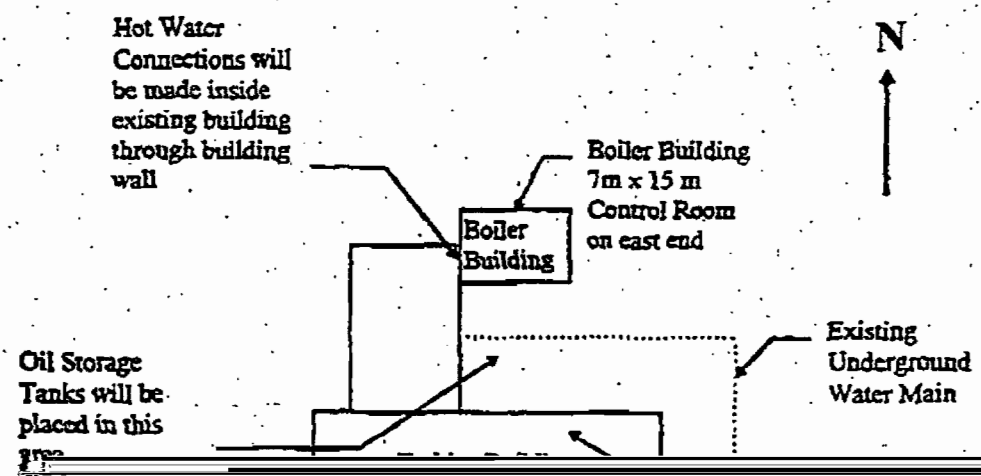
DOE - NN-42
812473

--- V CAROTENUTO
T-664 P.02

003/003

TRANSFERRED TO OTHER AGENCY
TRANSFER FOR DIRECT REPLY - DOE

M/37A



03/25/96 08:53
96-03-23 16:55

202 586 2323
PYONGYANG-KOREA

DOE - NN-42
812473

--- V CAROTENUTO
T-866 P.01

002/003

D00013641

TRANSFERRED TO OTHER AGENCY
TRANSFER FOR DIRECT REPLY - DOE

CHRON

4/1/38

U.S. Spent Fuel Team, Saturday 3/23/96

To: Cherie Fitzgerald, U.S. Department of Energy, NN-42

Fax: 1-202-586-2323

Phone: 1-202-586-8525

From: Dick Libby, DOE On-Site Monitor

Fax: 850-2-381-2473

Phone: 850-2-381-4423

Daily Action Item List

Final Assembly and Testing of Work Stations. Items completed include brush motor power connections, motor and drive shaft testing, brush cleaner angle plate cylinder pedals, and cleaning and painting work platforms. During the day, station 3 conditioning equipment continued to be checked out. To support the IAEA measuring activities 220V power was run to stations 2 and 3.

Chillers. This morning we had planned to apply power to the chiller compressors. However, it was not until afternoon that power was available. Due to the 4 hour warmup period, we will start Chiller B Monday. The temperature of the water this afternoon was 50.5F and the flowrate was 47.5 gpm.

Today 32 hours were devoted to canning work station setup and 4 hours were devoted to gross gamma collimator power and air connections. There were no hours lost to delays of any kind.

Old items: This morning Chief Engineer Li indicated that the DPRK government had no objection to the three speech items discussed earlier. At the Thursday morning meeting we discussed moving the bridge crane stops. Mr. Li went out to

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ACTION 15-33
5/2/2007

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CHRON

U.S. Spent Fuel Team, Monday 3/25/96

41139

To: Cherie Fitzgerald, U.S. Department of Energy, NN-42

Fax: 1-202-586-2323

Phone: 1-202-586-8525

From: Dick Libby, DOE On-Site Monitor

Fax: 850-2-381-2473

Phone: 850-2-381-4423

Daily Action Item List

Final Assembly and Testing of Work Stations: Items completed included connecting the debris lines to the collection manifold and access to the CenTec pump. During the day, station 3 conditioning equipment continued to be checked out. The crane stops were cut off and one was rewelded to the location marked by Chief Engineer Li last week. The second stop was set and it will be welded in the morning.

Chillers: This morning power was applied to the chiller compressors. Following the required 4 hour warmup period, we started Chiller B at 1:30PM. The temperature of the water this afternoon was between 51 and 52F and the flowrate was 46 gpm. The chiller outlet temperature was about 46F. Chief Engineer Li indicated that running one chiller would increase CenTec fuel costs by \$400/week.

Today 27 hours were devoted to canning work station setup and 9 hours were devoted moving the bridge crane rail stops. There were no hours lost to delays of any kind.

We spoke with Mr. Pope in Beijing. He was not able to obtain a visa at the DPRK Consulate. Mr. Reynolds believes it may have been requested for the 29th (the date appearing on the fax dated March 9 to Maureen at State from Mr. Richardson, the DOS Rep at Nyongbyon prior to Mr. Reynolds). We would also like to request the name of the next State Rep to the site and the Rep's scheduled arrival date. Mr. Reynolds plans to call Mr. Carotenuto at 6:00AM EST Monday (8:00AM Tuesday at Nyongbyon).

Mr. Miles, Mr. Bonadies and Mr. Hamilton returned to the Guest House Sunday evening. They had a very good time in town including a visit to the Diplomatic Club. The Club personnel indicated that they could play Tennis if they so desired. Perhaps Dr. Little should bring his gear on his next visit.

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T. Sieler DR DATE: 2/2/2009

T. Sieler

U.S. spent fuel team (DOE) weekly summaries

LGH MPM TAS RLF NLB DGR RAL

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T-876 P.01

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CHRON

7140

U.S. Spent Fuel Team, Tuesday 3/26/96

To: Cherie Fitzgerald, U.S. Department of Energy, NN-42

Fax: 1-202-586-2323

Phone: 1-202-586-8525

From: Dick Libby, DOE On-Site Monitor

Fax: 850-2-381-2473

Phone: 850-2-381-4423

Daily Action Item List

Final Assembly and Testing of Work Stations. Items completed included connecting the debris strainer in the line to the CenTec pump and cleaning up the hose layout. A leaking fitting in the station 3 conditioning equipment was found and replaced and the system checkout continued. The second bridge crane stop was welded in the morning. An additional temperature probe was placed in the inlet to the hot water skid.

Mr. Flournoy has analyzed a water sample taken last week. Complete results should be ready tomorrow.

Today ³⁴ hours were devoted to canning work station setup and 2 hours were devoted to welding the bridge crane rail stop. There were no hours lost to delays of any kind.

At the morning meeting we discussed the problem with untrained individuals handling, pushing buttons, and adjusting the canning and laboratory equipment. It was indicated that this has the potential for being a safety problem as well as an equipment damage problem. Chief Engineer Li indicated that he would again speak to his people about this problem. We will be providing training for the operators so that they will be controlling their canning stations once procedures have been developed and adequately tested.

We also discussed the boiler construction. I indicated that I would like to take some photographs (both video and film) of the boiler building construction. Mr. Li indicated that he would check on this and reply tomorrow. I indicated that a detailed packing list would be sent out today. I indicated that we would perform an inventory once that list had been received. Mr. Li indicated that he was told there were no stack components in the crates. During my cursory review while looking for the water test kit it appeared that three of the crates contained stack components. We will verify stack components when the inventory is completed later this week.

We called Mr. Pope at Great Wall Sheraton and even though he wasn't in his room he had not checked out of the hotel. We thus assume this means that he was unable to obtain a visa for today's Air Koryo flight.

U.S. Spent Fuel Team (DOE) weekly summaries

LGH MPM IAS RLF NLB DGR RAL

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CHRON

71041

U.S. Spent Fuel Team, Wednesday 3/27/96

To: Cherie Fitzgerald, U.S. Department of Energy, NN-42

Fax: 1-202-586-2323

Phone: 1-202-586-8525

From: Dick Libby, DOE On-Site Monitor

Fax: 850-2-381-2473

Phone: 850-2-381-4423

Daily Action Item List

Testing of Work Stations. The major work activity was continued debugging of conditioning stations 2 and 3. A number of leaks were found and fixed.

Today 36 hours were devoted to canning work station setup. There were no hours lost to delays of any kind.

In the morning meeting, the only subject was the boiler. Chief Engineer Li indicated that we could take video and still photographs at the construction site.

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U.S. Spent Fuel Team, Thursday 3/28/96

To: Cherie Fitzgerald, U.S. Department of Energy, NN-42

Fax: 1-202-586-2323

Phone: 1-202-586-8525

From: Dick Libby, DOE On-Site Monitor

Fax: 850-2-381-2473

Phone: 850-2-381-4423

Daily Action Item List

Testing of Work Stations. The major work activity was continued debugging of conditioning stations 2 and 3.

Today 36 hours were devoted to canning work station setup. There were no hours lost to delays of any kind.

In the morning meeting, the only subject of discussion was the changing of filters in the water treatment system. Mr. Flournoy indicated that the flow rate in the water treatment system was dropping (at the end of last week it was 47.5 gpm but now it is less than 42 gpm). By next week it will probably be around the 35 gpm flow that will indicate that it's time to change filters. Mr. Flournoy believes that first the condition of the other prefilter bank should be assessed (we do not know if they have already been loaded) and all prefilters changed, if necessary. Then the flowrate will again be assessed and the main filters changed, if necessary. The changeouts would continue through to the final filters, if required. Chief Engineer Li agreed that an assessment should be made, next week (Mr. Flournoy's main consideration for waiting until next week is so that the currently limited PC supplies could be replenished by Mr. Grim's and Mr. Viebrock's arrival with additional material). Mr. Li clearly does not wish to change filters unless it is absolutely necessary, and then to change no more than necessary. Mr. Flournoy and Mr. Li agreed that after the filters are changed to only use one filter bank at a time (both main filter banks are currently in use).

I have completed a preliminary inventory of the seven crates from Clayton with boiler components. I have also determined the gas stack design possible with the supplied components. I will draw this up (too bad Mr. Ames isn't here, everyone raves about his design drawings) and send it out tomorrow along with the detailed inventory.

Mr. Reynolds traveled to Pyongyang today to meet and have lunch with Ake Lovquist.

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96-03-29 18:47 PYONGYANG-KOREA

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CHRON

U.S. Spent Fuel Team, Friday 3/29/96

To: Cherie Fitzgerald, U.S. Department of Energy, NN-42

Fax: 1-202-586-2323

Phone: 1-202-586-8525

From: Dick Libby, DOE On-Site Monitor

Fax: 850-2-381-2473

Phone: 850-2-381-4423

Daily Action Item List

Testing of Work Stations. The major work activity was continued debugging of conditioning stations 2 and 3. In the afternoon, the fuel canister at station number 3 was moved to station 2 for station 2 debugging. The move was observed by the IAEA.

Today 27 hours were devoted to canning work station setup. There were no hours lost to delays of any kind. Although power was off at the site in the late afternoon, it did not impact our operations.

In the morning meeting, the only subject of discussion again was the plan for changing filters in the water treatment system. Mr. Flournoy received a fax from CenTec and he used it as the basis for discussion. I believe that the misunderstanding regarding filter sizes and locations has been straightened out. We still anticipate a filter change next week. In the afternoon we shut off chiller B.

I have completed a preliminary inventory of the seven crates from Clayton containing boiler components. I have attached this information and boiler chimney installation procedure which I would like Mr. Thomas to review.

Today Mr. Hamilton and Mr. Shelton departed for Pyongyang. Mr. Hamilton's 85 days here should enable him to receive nearly 9000 Dragon Points in the Guest House's Frequent Guest program. These points will be redeemable for hot water or electricity during a day of his choice on his next visit, which is scheduled to begin in late April.

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DR DATE: 2/2/2019

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